

```
' PIC16F819
 '* SET UP BASIC ENVIRONMENT
        DEFINE CHAR_PACING 1000
 ' PORTA.0 = CURRENT SENSE
 ' PORTA.1 = POT
' PORTA.2 = THERMISTOR
 ' PORTA.3 - VOLTAGE SENSE
 ' PORTA.4 =
 ' PORTA.5 ==
 ' PORTB.0 =
' PORTB.1 =
' PORTB.2 = NPN
' PORTB.3 = FORMERLY NPN
' PORTB.4 = PNP
' PORTB.5 =
' PORTB.6 =
' PORTB.7 =
 **********************
                       ENVIRONMENT
 ***************************
        DEFINE CHAR_PACING 1000
1 *
                        VARIABLES
                BYTE
N
        VAR
                BYTE
X
        VAR
                BYTE
        VAR
        VAR
                BYTE
X2
        VAR
                WORD
YZ
                WORD
        VAR
MISCF
                BYTE
        VAR
                       BANKO
LCNT
                BYTE
        VAR
VOLTS
        VAR
               WORD
VOUT
        VAR
               WORD
CURRENT VAR
               WORD
AMP
               WORD
        VAR
TEMP
        VAR
               WORD
               WORD
VIDLE
        VAR
VMAX
               WORD
        VAR
POTBUF
               WORD(8)
        VAR
ACNI
        VAR
               BYTE
ALOOP
               BYTE
        VAR
ELCOP
               BYTE
        VAR
PVOLT
               WORD
        VAR
OTIME
               WORD
                       BANKO
        VAR
BUCK
       VAR
               BYTE
       VAR BYTE BANKO SYSTEM
ssave
       VAR BYTE BANKO SYSTEM
psave
       VAR BYTE $20 SYSTEM
wsavc
       VAR BYTE $AO SYSTEM
wsavel
```

' ***** LCD PANEL *****